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<u>L5</u>	(sulfonate or sulfate or phosphate) near (polytetramethylene glycol or polyesterdiol)	3	<u>L5</u>
<u>L4</u>	(sulfonate or sulfate or phosphate) same (polytetramethylene glycol or polyesterdiol)	152	<u>L4</u>
<u>L3</u>	(sulfonate or sulfate or phosphate)and (polytetramethylene glycol or polyesterdiol)	2472	<u>L3</u>
<u>L2</u>	(sulfonate or sulfate or phosphate)and (\$glycol or \$diol)	207407	<u>L2</u>
<u>L1</u>	(sulfonate or sulfate or phosphate)	652454	<u>L1</u>

END OF SEARCH HISTORY

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.****1. Document ID: US 20020146382 A1**

L5: Entry 1 of 3

File: PGPB

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020146382
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020146382 A1

TITLE: Sillylated polyurethane-urea compositions for use in cosmetic applications

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mallo, Richard A.	Woodbury	MN	US	
Kantner, Steven S.	St. Paul	MN	US	
Lewandowski, Kevin M.	Inver Grove Heights	MN	US	
Krepiski, Larry R.	White Bear Lake	MN	US	

US-CL-CURRENT: 424/70.122; 528/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC
Draw Desc	Image										

2. Document ID: US 6605666 B1

L5: Entry 2 of 3

File: USPT

Aug 12, 2003

US-PAT-NO: 6605666
DOCUMENT-IDENTIFIER: US 6605666 B1

TITLE: Polyurethane film-forming dispersions in alcohol-water system

DATE-ISSUED: August 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Scholz; Matthew T.	Woodbury	MN		
Kantner; Steven S.	St. Paul	MN		
Comstock; Kristen L.	St. Paul	MN		
Brown; Christopher J.	New Brighton	MN		

US-CL-CURRENT: 524/591; 128/849, 128/850, 424/78.02, 424/78.03, 424/78.37, 427/2.1, 524/839, 524/840, 528/71

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RMC
Draw Desc	Image										

Application No.: 09/244770

Art Unit: 1711

The reply brief, the amendment and the request for oral hearing all
filed 10 Jun 2003 have been entered and considered. The application has been
forwarded to the Board of Patent Appeals and Interferences for decision on the appeal.

☐ 3. Document ID: US 6433073 B1

L5: Entry 3 of 3

File: USPT

Aug 13, 2002

US-PAT-NO: 6433073

DOCUMENT-IDENTIFIER: US 6433073 B1

TITLE: Polyurethane dispersion in alcohol-water system

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kantner; Steven S.	St. Paul	MN		
Scholz; Matthew T.	Woodbury	MN		
Lewandowski; Kevin M.	Inver Grove Heights	MN		

US-CL-CURRENT: 524/591; 424/401, 424/405, 424/59, 424/61, 424/63, 424/64, 424/69, 424/70.1, 424/70.11, 424/70.7, 424/78.37, 524/839, 524/840, 528/71

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

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Term	Documents
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SULPHONATES	10998
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SULPHATES	19247
SULPHATE	125172
SULFATES	51087
PHOSPHATE	339220
PHOSPHATES	72977
POLYTETRAMETHYLENE	10278
((SULFONATE OR SULFATE OR PHOSPHATE) NEAR (POLYTETRAMETHYLENE GLYCOL OR POLYESTERDIOL)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	3

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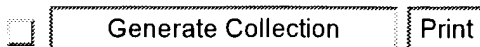
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Code 090180 catastrophic time

Code 119500 time spent extee for slow search



L5: Entry 1 of 3

File: PGPB

Oct 10, 2002

DOCUMENT-IDENTIFIER: US 20020146382 A1

TITLE: Silylated polyurethane-urea compositions for use in cosmetic applications

Summary of Invention Paragraph (57):

[0052] The anionic stabilizer used in the present invention can be present on either the isocyanate component or the polyol component. Typically, and most conveniently, the anionic stabilizer is present as the polyol component. The anionic group can be sulfonate, phosphonate, phosphate, and carboxylate but is preferably either sulfonate or carboxylate and most preferably a sulfonate. The most preferred sulfonates are the sulfonated polyols described in U.S. Pat. No. 4,738,992 (Larson et al.). Particularly preferred sulfonates are polyesterdiols having the following structure: 1

United States Patent [19]
Deaner et al.

[11] Patent Number: 6,004,668
[45] Date of Patent: Dec. 21, 1999

[54] ADVANCED POLYMER WOOD COMPOSITE

[75] Inventors: Michael J. Deaner, Osceola, Wis.;
Giuseppe Puppin, Bayport; Kurt E.
Heikkila, Circle Pines, both of Minn.

[73] Assignee: Andersen Corporation, Bayport, Minn.

[21] Appl. No.: 09/178,953

[22] Filed: Oct. 26, 1998

Related U.S. Application Data

[63] Continuation of application No. 08/543,959, Oct. 17, 1995,
Pat. No. 5,827,607, which is a continuation of application
No. 08/224,396, Apr. 7, 1994, abandoned, which is a con-
tinuation of application No. 07/938,364, Aug. 31, 1992,
abandoned.

[51] Int. Cl.⁶ B32B 5/16

[52] U.S. Cl. 428/326; 428/359; 428/361;
428/378; 428/393; 428/332; 428/407; 428/402;
428/507; 428/510; 428/511; 428/514; 523/222;
524/13; 524/14; 524/551

[58] Field of Search 524/13, 14, 16,
524/34, 551, 567, 908; 523/222; 428/402,
407, 507, 510, 511, 514, 573, 375, 361,
393, 326

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(List continued on next page.)

Primary Examiner—William Krynski

Assistant Examiner—J. M. Gray

Attorney, Agent, or Firm—Merchant & Gould P.C.

[57] ABSTRACT

A composition in the form of pellets comprising a thermo-
plastic and wood fiber composite material suitable for form-
ing structural members as a replacement for wood in the
manufacture of doors and windows. The composite has less
than about 10 wt % water based on pellet weight and a
Young's modulus of at least about 500,000. Structural
members are typically formed from the composite in an
extrusion or an injection molding process.

39 Claims, No Drawings

**End of Result Set**☐ **Generate Collection** **Print**

L5: Entry 3 of 3

File: USPT

Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6433073 B1

TITLE: Polyurethane dispersion in alcohol-water system

Brief Summary Text (48):

The anionic stabilizer used in the present invention can be present on either the isocyanate component or the polyol component. Typically, and most conveniently, the anionic stabilizer is present as the polyol component. The anionic group can be sulfonate, phosphonate, phosphate, and carboxylate but is preferably either sulfonate or carboxylate and most preferably a sulfonate. The most preferred sulfonates are the sulfonated polyols described in U.S. Pat. No. 4,738,992 (Larson et al.). Particularly preferred sulfonates are polyesterdiols having the following structure: ##STR1##

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